

CLAIMS

1. A method of reporting radio access capacity information from a mobile station to a mobile radio network in packet mode, wherein:

- 5 - the network determines, from mobile station identity information communicated to it, if it already holds radio access capacity information relating to the mobile station, and
- if it does not already hold such information, it
- 10 requests the mobile station to communicate the information to it.

2. A method according to claim 1, wherein said mobile station identity information is information for managing

15 the uplink in packet mode.

3. A method according to claim 2, wherein said mobile station identity information is transmitted with data transmitted in the uplink direction.

20 4. A method according to claim 3, wherein the network requests the mobile station to communicate said radio access capacity information to it in a message acknowledging data received in the uplink direction.

25 5. A method according to claim 4, wherein said system is a GPRS system and said message is a PACKET UPLINK ACK/NACK message.

30 6. A method according to claim 1, wherein said mobile station identity information is transmitted with an uplink data transmission resource assignment request.

35 7. A method according to claim 6, wherein the network requests the mobile station to communicate said radio access capacity information to it in an uplink radio resource assignment message.

8. A method according to claim 7, wherein said system is a GPRS system and said message is a PACKET UPLINK ASSIGNMENT message.

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9. A method according to claim 1, wherein said mobile station identity information has already been communicated to the network in the context of a downlink transfer of data already set up.

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10. A method according to claim 9, wherein the network requests the mobile station to communicate said radio access capacity information to it in an uplink radio resource assignment message.

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11. A packet mode mobile radio network entity including, for implementing a method according to claim 1:

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- means for determining, from mobile station identity information that is communicated to it, if it already holds radio access capacity information relating to the mobile station, and
- means for requesting the mobile station to communicate said information to it if it does not already hold the information.

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12. An entity according to claim 11, wherein said network is a GPRS network and said entity is a packet control unit (PCU).

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13. A mobile station including, for implementing a method according to claim 1:

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- means for receiving a request to communicate radio access capacity information, and
- means for transmitting such information to the network in response to said request.